

Prof. Dr. Britta Tietjen

Research Statement

I am fascinated by how individuals, population and their interactions also with their abiotic environment shape the functioning and resilience of whole ecosystems. I use different model approaches to study the impacts of global change on ecosystems and their functions and services, and the role of biodiversity in this context. My main expertise lies on dryland ecosystems, which are characterised by water shortage and the according adaptations of plants and other organisms.

Short CV

Since 2021	Managing Director of the Institute of Biology, Freie Universität Berlin
Since 2019	Professor (W3) for Theoretical Ecology, Department of Biology, Chemistry, Pharmacy, Freie Universität Berlin
2017 - 2019	Professor (W2) for Biodiversity/ Theoretical Ecology, Department of Biology, Chemistry, Pharmacy, Freie Universität Berlin
2011-2017	Juniorprofessor (W1) for Biodiversity/ Ecological Modelling, Department of Biology, Chemistry, Pharmacy, Freie Universität Berlin
2009-2011	Research Associate at Potsdam Institute for Climate Impact Research (PIK)
2005-2009	PhD student at the Institute of Biochemistry and Biology, University of Potsdam
2004-2005	Diploma thesis at the Department of Ecological Modelling, Environmental Research Centre (UFZ)
2002-2003	Visiting Researcher at the Canadian Environmental Modelling Centre, Trent University, Canada
2000-2005	Student of Applied System Science, University of Osnabrück

Funded Projects

2022-2024	Speaker of Climate and Water under Change – Emerging challenges and strategies for coordinated action in the model region Berlin-Brandenburg (CliWaC). Funded as Einstein Research Unit by Berlin University Alliance (BUA) and Einstein Foundation Berlin.
2022-2024	Towards a comprehensive valuation of natural capital in Germany: Methods and approaches to deal with limited information and uncertainty (ValuGaps). Funded by BMBF, FEaA.
2021-2024	Mangrove-Saltmarsh ecotone patterns as indicators for critical impacts of sea level rise and climate change on coastal wetlands (MASCOT). Funded by DFG.
2021-2024	AnthropoScenes. Making Sustainable Future Public. Funded by BUA Objective 2: Fostering Knowledge Exchange.
2019-2022	ORYCS – Options for sustainable land use adaptations in savanna systems: Chances and risks of wildlife management. Funded by BMBF, SPACES II.
2016-2021	Bridging in Biodiversity Science (BIBS), part of the Berlin-Brandenburg Institute of Advanced Biodiversity Research (BBIB). Funded by BMBF.

- 2016-2021 Priming and Memory of Organismic Responses to Stress (CRC 973). Funded by DFG.
- 2016-2019 Ecosystem services through restoration: Improving restoration outcomes through trait-based modelling. Funded by DFG.
- 2015-2018 Ecosystem resilience towards climate change – the role of interacting buffer mechanisms. Funded by DFG.
- 2014-2017 OPTIMASS – Options for sustainable geo-biosphere feedback management in savanna systems. Funded by BMBF.